Confidential Claim Retracted

Authorized by: SE

Date: 6/26/13

AIR QUALITY MONITORING PROGRAM

One 48-hour sample is taken each month at each of the four locations specified by Marc Nelson. They are collected about three meters above the ground on GF/A Glass Microfibre filter paper, using an RAC Heavy-duty Sampler.

AMBIENT RADON STUDY

One 48-hour sample is collected at each of the air sampling locations as specified by Marc Nelson. These samples are collected about one meter above the ground in 30-liter Tedlar bags, using a modified acquarium pump. The samples are transported to the Environmental Laboratory, transferred to a scintillation cell, and counted.

JACKPILE - WATER RADIOLOGICAL ANALYSIS

(SECOND QUARTER, 1980)

DESCRIPTIVE LOCATION	Radium-226 pCi/L			Uranium-Natural ppm		
	April	May	June	April	May	June
Rio Paguate Upstream	0.50	0.56	0.12	0.001	0.007	0.001
Rio Moquino Upstream	0.48	0.95	0.54	0.002	0.006	0.009
Rio Paguate Above the Confluence	2.08	6.21	2.27	0.007	0.023	0.019
Rio Moquino Above the Confluence	0.51	2.14	0.43	0.039	0.015	0.019
Rio Paguate Ford Crossing	2.00	6.88	3.29	0.047	0.076	0.082
Paguate Reservoir	0.68	1.20	0.53	0.071	0.249	0.189
Jackpile Well #4	0.16	0.83	0.41	0.007	0.005	0.003
Jackpile New Shop	3.00	2.47	3.07	0.001	0.008	0.006
Jackpile Old Shop	1.71	0.87	0.94	0.094	0.031	0.082

DATE: April, 1980.

DESCRIPTIVE LOCATION	DATE	pH	TDS ppm	Cond umhos	HCO_3^- ppm	Cl^- ppm	$SO_4^=$ ppm	Na^+ ppm	K^+ ppm	Ca^{++} ppm	Mg^{++} ppm	NO_3^- ppm	F^- ppm	SiO_2 ppm	Mn^{++} ppm
Rio Paguate Upstream	4-2-80	8.4	374	630	285	10	79	19	7	65	25	< 1	0.35	27	< 0.10
Rio Moquino Upstream	4-2-80	8.2	1096	1600	259	13	600	118	18	122	76	< 1	0.50	20	< 0.10
Rio Paguate Above the Confluence	4-2-80	8.2	397	720	284	11	97	24	8	62	27	< 1	0.38	26	< 0.10
Rio Moquino Above the Confluence	4-2-80	8.2	1271	1800	279	15	730	122	22	134	90	< 1	0.55	19	< 0.10
Rio Paguate Ford Crossing	4-2-80	8.2	1026	1500	286	14	548	100	19	105	75	< 1	0.52	22	< 0.10
Paguate Reservoir	4-2-80	8.2	1741	2350	263	29	1069	160	40	170	128	< 1	0.65	14	< 0.10
Jackpile #4	4-2-80	8.6	800	1400	325	21	324	276	6	3	1	< 1	1.15	7	< 0.10
Jackpile New Shop	4-2-80	8.3	1322	2200	398	31	671	520	16	15	2	< 1	1.28	17	< 0.10
Jackpile Old Shop	4-2-80	8.1	1613	2350	329	42	849	384	20	77	64	< 6	1.12	8	< 0.10

		As ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm	Cu ppm	Fe ppm	Zn ppm	Mo ppm	Ni ppm	V ppm	
Rio Paguate Upstream	4-2-80	< 0.005	0.09	< 0.001	< 0.005	0.02	< .0005	< 0.005	0.002	< 0.10	0.003	< 0.01	< 0.005	< 0.05	
Rio Moquino Upstream	4-2-80	< 0.005	0.07	< 0.001	< 0.005	0.04	< .0005	< 0.005	0.004	< 0.10	0.015	< 0.01	< 0.005	< 0.05	
Rio Paguate Above the Confluence	4-2-80	< 0.005	0.12	< 0.001	< 0.005	0.02	< .0005	< 0.005	0.002	< 0.10	0.006	< 0.01	< 0.005	< 0.05	
Rio Moquino Above the Confluence	4-2-80	< 0.005	0.09	< 0.001	< 0.005	0.03	< .0005	< 0.005	0.002	< 0.10	0.006	< 0.01	< 0.005	< 0.05	
Rio Paguate Ford Crossing	4-2-80	< 0.005	0.10	< 0.001	< 0.005	0.03	< .0005	< 0.005	0.005	< 0.10	0.008	< 0.01	< 0.005	< 0.05	
Paguate Reservoir	4-2-80	< 0.005	< 0.05	< 0.001	< 0.005	0.04	< .0005	< 0.005	0.008	< 0.10	0.015	< 0.01	< 0.005	< 0.05	
Jackpile #4	4-2-80	< 0.005	< 0.05	< 0.001	< 0.005	< 0.01	< .0005	< 0.005	0.004	< 0.10	0.009	< 0.01	< 0.005	< 0.05	
Jackpile New Shop	4-2-80	< 0.005	0.06	< 0.001	< 0.005	0.01	< .0005	< 0.005	0.004	0.20	0.093	< 0.01	< 0.005	< 0.05	
Jackpile Old Shop	4-2-80	< 0.005	0.05	< 0.001	< 0.005	0.02	< .0005	0.15	0.005	< 0.10	0.18	< 0.01	< 0.005	< 0.05	

WATER CHEMICAL ANALYSIS

DATE: May, 1980

DESCRIPTIVE LOCATION	DATE	pH	TDS ppm	Cond umhos	HCO_3^- ppm	Cl^- ppm	$SO_4^=$ ppm	Na^+ ppm	K^+ ppm	Ca^{++} ppm	Mg^{++} ppm	NO_3^- ppm	F^- ppm	SiO_2 ppm	Mn^{++} ppm
Rio Paguate Upstream	5-5-80	8.2	407	760	320	11	79	31	5	84	35	< 1	0.40	3	< 0.10
Rio Moquino Upstream	5-5-80	8.1	1141	1700	245	15	662	125	12	124	75	< 1	0.58	6	< 0.10
Rio Paguate Above the Confluence	5-5-80	8.3	485	750	267	11	195	36	5	69	31	< 1	0.41	5	< 0.10
Rio Moquino Above the Confluence	5-5-80	8.3	1267	1950	245	15	736	151	14	130	91	< 1	0.58	8	< 0.10
Rio Paguate Ford Crossing	5-5-80	8.1	1186	1750	270	15	680	130	13	119	85	< 1	0.56	9	< 0.10
Paguate Reservoir	5-5-80	8.4	1921	2650	169	31	1222	270	29	142	132	< 1	0.64	10	< 0.10
Jackpile #4	5-5-80	8.6	921	1550	353	21	360	350	4	5	2	< 1	1.20	3	< 0.10
Jackpile New Shop	5-5-80	8.5	1537	2300	386	28	685	600	8	16	3	< 1	1.30	5	< 0.10
Jackpile Old Shop	5-5-80	8.4	1485	2200	337	35	764	420	9	48	35	< 1	1.20	6	< 0.10

		As ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm	Cu ppm	Fe ppm	Zn ppm	Mo ppm	Ni ppm	V ppm	
Rio Paguate Upstream	5-5-80	< 0.005	0.20	< 0.001	< 0.005	< 0.01	< .0005	< 0.005	0.004	< 0.10	0.003	< 0.01	< .005	< 0.05	
Rio Moquino Upstream	5-5-80	< 0.005	0.12	< 0.001	< 0.005	< 0.01	< .0005	< 0.005	0.004	< 0.10	0.005	< 0.01	< .005	< 0.05	
Rio Paguate Above the Confluence	5-5-80	< 0.005	0.12	< 0.001	< 0.005	< 0.01	< .0005	< 0.005	0.004	< 0.10	0.005	< 0.01	< .005	< 0.05	
Rio Moquino Above the Confluence	5-5-80	< 0.005	< 0.05	< 0.001	< 0.005	< 0.01	< .0005	< 0.005	0.003	< 0.10	0.005	< 0.01	< .005	< 0.05	
Rio Paguate Ford Crossing	5-5-80	< 0.005	0.12	< 0.001	< 0.005	< 0.01	< .0005	< 0.005	0.004	< 0.10	0.005	< 0.01	< .005	< 0.05	
Paguate Reservoir	5-5-80	< 0.005	0.12	< 0.001	< 0.005	< 0.01	< .0005	< 0.005	0.003	< 0.10	0.004	< 0.01	< .005	< 0.05	
Jackpile #4	5-5-80	< 0.005	0.08	< 0.001	< 0.005	< 0.01	< .0005	< 0.005	0.003	< 0.10	0.059	< 0.01	0.006	< 0.05	
Jackpile New Shop	5-5-80	< 0.005	0.08	< 0.001	< 0.005	< 0.01	< .0005	< 0.005	0.003	< 0.10	0.059	< 0.01	0.006	< 0.05	
Jackpile Old Shop	5-5-80	< 0.005	0.08	< 0.001	< 0.005	< 0.01	< .0005	0.06	0.002	0.12	0.036	< 0.01	< .005	< 0.05	

WATER CHEMICAL ANALYSIS

DATE: JUNE, 1980

DESCRIPTIVE LOCATION	DATE	pH	TDS ppm	Cond umhos	HCO_3^- ppm	Cl^- ppm	$SO_4^=$ ppm	Na^+ ppm	K^+ ppm	Ca^{++} ppm	Mg^{++} ppm	NO_3^- ppm	F^- ppm	SiO_2 ppm	Mn^{++} ppm
Rio Paguate Upstream	6-3-80	8.2	517	820	358	16	142	42	6	98	31	< 1	0.42	4	< 0.10
Rio Moquino Upstream	6-3-80	8.1	1237	1750	251	16	714	163	19	124	6	< 1	0.58	6	< 0.10
Rio Paguate Above the Confluence	6-3-80	8.4	475	715	217	13	208	49	7	50	36	< 1	0.42	3	< 0.10
Rio Moquino Above the Confluence	6-3-80	8.2	1583	2100	235	18	975	211	20	139	99	< 1	0.75	4	< 0.10
Rio Paguate Ford Crossing	6-3-80	8.2	1345	1900	258	20	789	170	17	123	92	< 1	0.68	5	< 0.10
Paguate Reservoir	6-3-80	8.2	2246	2800	181	36	1455	306	35	166	149	< 1	0.78	8	< 0.10
Jackpile #4	6-3-80	8.5	842	1500	364	21	333	292	4	5	< 1	< 1	1.19	5	< 0.10
Jackpile New Shop	6-3-80	8.2	1453	2200	402	29	755	437	9	16	1	1	1.27	6	< 0.10
Jackpile Old Shop	6-3-80	8.2	1351	2200	338	37	673	355	10	64	34	7	1.17	4	< 0.10

		As ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm	Cu ppm	Fe ppm	Zn ppm	Mo ppm	Ni ppm	V ppm	
Rio Paguate Upstream	6-3-80	< 0.005	0.44	< 0.001	< 0.005	< 0.005	< .0005	< 0.005	0.007	< 0.10	0.010	< 0.01	< .005	< 0.01	
Rio Moquino Upstream	6-3-80	< 0.005	0.39	< 0.001	< 0.005	0.010	< .0005	< 0.005	0.008	< 0.10	0.017	< 0.01	< .005	0.01	
Rio Paguate Above the Confluence	6-3-80	< 0.005	0.26	< 0.001	< 0.005	< 0.005	< .0005	< 0.005	0.005	< 0.10	0.003	< 0.01	< .005	< 0.01	
Rio Moquino Above the Confluence	6-3-80	< 0.005	0.28	< 0.001	< 0.005	0.020	< .0005	< 0.005	0.005	< 0.10	0.009	< 0.01	< .005	0.01	
Rio Paguate Ford Crossing	6-3-80	< 0.005	0.28	< 0.001	< 0.005	0.013	< .0005	< 0.005	0.004	< 0.10	0.008	< 0.01	< .005	0.01	
Paguate Reservoir	6-3-80	< 0.005	0.21	< 0.001	< 0.005	0.054	< .0005	< 0.005	0.012	< 0.10	0.016	< 0.01	< .005	0.01	
Jackpile #4	6-3-80	< 0.005	0.16	< 0.001	< 0.005	0.012	< .0005	< 0.005	0.005	< 0.10	0.007	< 0.01	< .005	0.02	
Jackpile New Shop	6-3-80	< 0.005	0.12	< 0.001	< 0.005	0.065	< .0005	< 0.005	0.007	< 0.10	0.042	< 0.01	< .005	0.03	
Jackpile Old Shop	6-3-80	< 0.005	0.11	< 0.001	< 0.005	0.027	< .0005	0.105	0.006	< 0.10	0.134	< 0.01	< .005	0.02	

JACKPILE - WATER RADIOLOGICAL ANALYSIS
(Forth Quarter, 1979)

DESCRIPTIVE LOCATION	RADIUM-226 pCi/l					URANIUM-NATURAL ppm					
	Oct.	Nov.	Dec.			Oct.	Nov.	Dec.			
Rio Paguate Upstream	0.52	0.33	0.46			0.003	0.003	0.007			
Rio Moquino Upstream	0.16	0.29	0.05			0.010	0.012	0.010			
Rio Paguate Above the Confluence	5.53	6.13	5.46			0.137	0.063	0.083			
Rio Moquino Above the Confluence	1.48	0.77	0.68			0.032	0.025	0.034			
Rio Paguate Ford Crossing	8.33	4.43	6.13			0.135	0.189	0.079			
Mouth of Oak Canyon Wash	NS	NS	NS			NS	NS	NS			
Paguate Reservoir	0.06	0.72	0.57			0.038	0.055	0.220			
Jackpile #4	0.33	0.72	0.63			0.006	0.001	0.006			
Jackpile New Shop	1.36	3.71	3.58			0.018	0.002	0.005			
Jackpile Old Shop	0.64	1.75	1.00			0.086	0.057	0.069			

JACKPILE
WATER CHEMICAL ANALYSIS

DATE: October, 1979

DESCRIPTIVE LOCATION	DATE	pH	TDS ppm	Cond umhos	HCO_3^- ppm	Cl^- ppm	$SO_4^=$ ppm	Na^+ ppm	K^+ ppm	Ca^{++} ppm	Mg^{++} ppm	NO_3^- ppm	F^- ppm	SiO_2 ppm	Mn^{++} ppm		
Rio Paguate (Upstream)	10/04/79	8.3	473	750	342	12	126	23	15	64	31	< 1	0.39	32	<.1		
Rio Moquino (Upstream)	10/04/79	8.2	1528	2100	239	19	1016	118	23	118	100	< 1	0.59	14	<.1		
Rio Paguate (Above the Confluence)	10/04/79	8.4	8.31	1400	198	16	467	60	19	72	76	< 1	0.48	22	<.1		
Rio Moquino (Above the Confluence)	10/04/79	8.3	1889	2600	264	21	1283	135	23	140	140	< 1	0.79	15	<.1		
Rio Paguate (Ford Crossing)	10/04/79	8.2	2080	2750	305	24	1363	155	25	140	153	< 1		18	<.1		
Paguate Reservoir	10/04/79	8.0	1844	2550	195	34	1265	130	33	169	111	< 1	1.79	4	<.1		
Jackpile #4	10/04/79	8.7	744	1400	355	20	326	202	6	3	1	< 1	1.30	9	<.1		
Jackpile New Shop	10/04/79	8.3	1274	2100	395	28	660	349	11	12	1	< 1	1.25	17	<.1		
Jackpile Old Shop	10/04/79	8.2	1397	2250	327	36	836	230	14	60	44	6	1.32	9	<.1		
		As ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm	Cu ppm	Fe ppm	Zn ppm	Mo ppm	Ni ppm	V ppm			
Rio Paguate (Upstream)	10/04/79	0.009	<0.05	<0.001	< 0.005	< 0.01	< 0.0005	<0.01	0.002	<.1	0.003	<0.01	<0.005	<0.05			
Rio Moquino (Upstream)	10/04/79	0.007	<0.05	<0.001	< 0.005	< 0.01	< 0.0005	<0.01	0.002	<.1	0.013	<0.01	<0.005	<0.05			
Rio Paguate (Above the Confluence)	10/04/79	0.008	<0.05	<0.001	< 0.005	< 0.01	< 0.0005	<0.01	0.019	<.1	0.006	<0.01	<0.005	<0.05			
Rio Moquino (Above the Confluence)	10/04/79	0.006	<0.05	<0.001	< 0.005	< 0.01	< 0.0005	<0.01	0.002	<.1	0.002	<0.01	<0.005	<0.05			
Rio Paguate (Ford Crossing)	10/04/79	0.007	<0.05	<0.001	< 0.005	< 0.01	< 0.0005	<0.01	0.025	<.1	0.010	<0.01	<0.005	<0.05			
Paguate Reservoir	10/04/79	0.013	<0.05	<0.001	< 0.005	< 0.01	< 0.0005	<0.01	0.002	<.1	0.020	<0.01	<0.005	<0.05			
Jackpile #4	10/04/79	0.004	<0.05	<0.001	< 0.005	< 0.01	< 0.0005	0.01	0.014	<.1	0.008	<0.01	<0.005	<0.05			
Jackpile New Shop	10/04/79	0.005	<0.05	<0.001	< 0.005	< 0.01	< 0.0005	<0.01	0.003	<.1	0.019	<0.01	<0.005	<0.05			
Jackpile Old Shop	10/04/79	0.008	<0.05	<0.001	<0.005	<0.01	< 0.0005	0.10	0.071	<1	0.074	<0.01	<0.005	<0.05			

JACKPILE
WATER CHEMICAL ANALYSIS

DATE: November, 1979

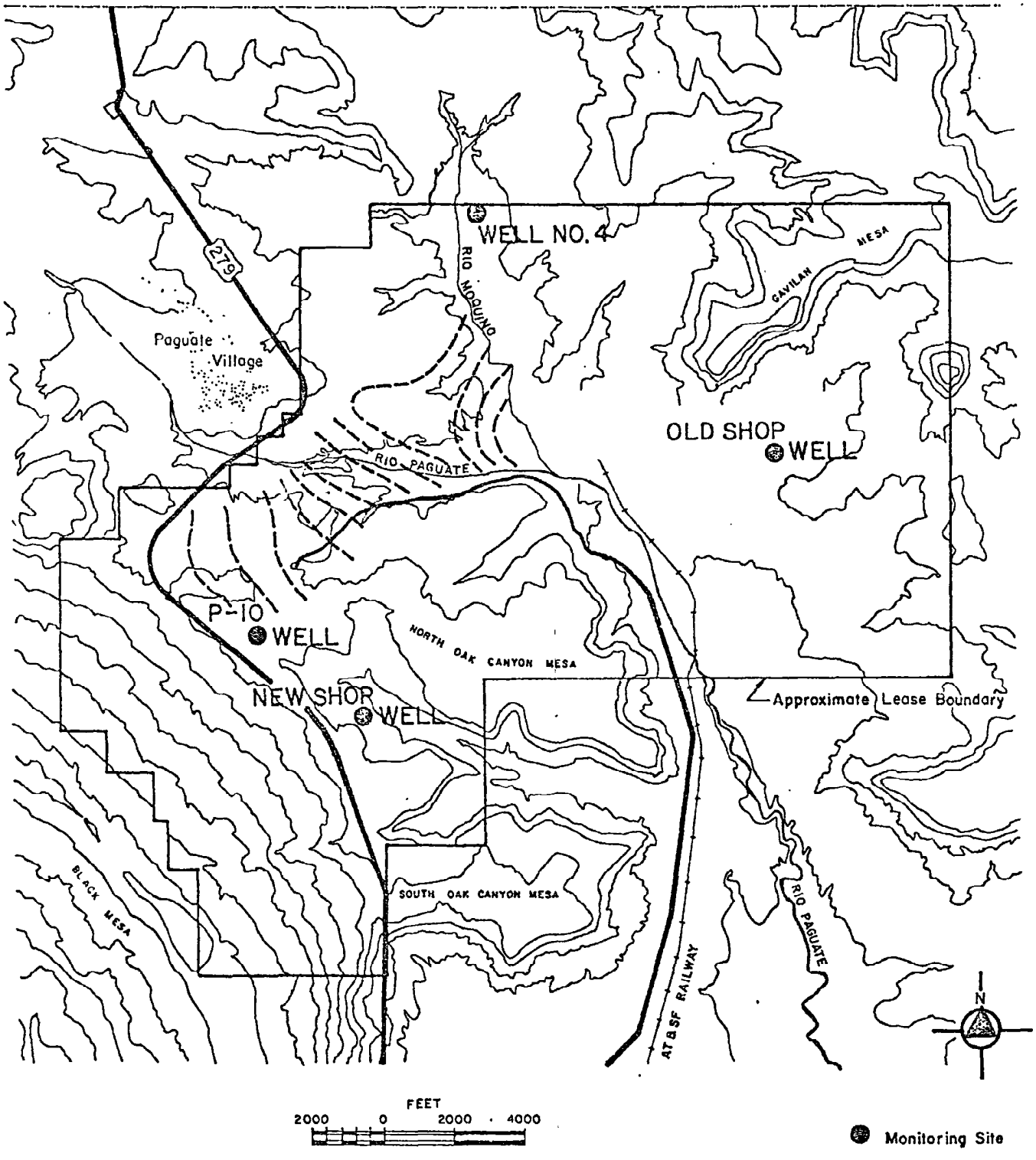
DESCRIPTIVE LOCATION	DATE	pH	TDS ppm	Cond umhos	HCO_3^- ppm	Cl^- ppm	$SO_4^=$ ppm	Na^+ ppm	K^+ ppm	Ca^{++} ppm	Mg^{++} ppm	NO_3^- ppm	F^- ppm	SiO_2 ppm	Mn^{++} ppm		
Rio Paguate (Upstream)	11/06/79	8.2	534	830	376	12	127	31	15	93	32	1	0.48	38	< .10		
Rio Moquino (Upstream)	11/06/79	8.0	1476	2050	259	17	883	160	19	140	101	< 1	0.71	28	< .10		
Rio Paguate (Above the Confluence)	11/06/79	8.2	605	1025	298	16	216	46	16	72	44	< 1	0.54	47	< .10		
Rio Moquino (Above the Confluence)	11/06/79	8.1	1942	2500	276	20	1231	201	20	175	140	< 1	0.94	17	< .10		
Rio Paguate (Ford Crossing)	11/06/79	8.1	1874	2250	307	21	1150	199	21	162	140	< 1	0.88	28	< .10		
Paguate Reservoir	11/06/79	8.0	2423	3000	168	44	1582	269	35	235	152	3	1.00	19	< .10		
Jackpile #4	11/06/79	8.6	866	1500	355	20	335	302	6	5	1	< 1	1.50	21	< .10		
Jackpile New Shop	11/21/79	8.3	1433	2200	389	76	665	500	10	16	1	< 1	1.55	22	< .10		
Jackpile Old Shop	11/06/79	8.3	1408	2100	337	22	728	382	11	52	29	4	1.45	13	< .10		
		As ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm	Cu ppm	Fe ppm	Zn ppm	Mo ppm	Ni ppm	V ppm			
Rio Paguate (Upstream)	11/06/79	0.007	<0.05	<0.001	<0.005	0.01	<0.0005	<0.01	0.007	<.10	0.004	<0.01	<0.005	<0.05			
Rio Moquino (Upstream)	11/06/79	<0.005	<0.05	<0.001	<0.005	0.01	<0.0005	<0.01	0.008	<.10	0.004	<0.01	<0.005	<0.05			
Rio Paguate (Above the Confluence)	11/06/79	<0.005	<0.05	<0.001	<0.005	0.02	<0.0005	<0.01	0.006	<.10	0.007	<0.01	<0.005	<0.05			
Rio Moquino (Above the Confluence)	11/06/79	<0.005	<0.05	<0.001	<0.005	0.02	<0.0005	<0.01	0.007	<.10	0.005	<0.01	<0.005	<0.05			
Rio Paguate (Ford Crossing)	11/06/79	<0.005	<0.05	<0.001	<0.005	0.02	<0.0005	<0.01	0.004	<.10	0.005	<0.01	<0.005	<0.05			
Paguate Reservoir	11/06/79	<0.005	<0.05	<0.001	<0.005	0.02	<0.0005	<0.01	0.006	<.10	0.005	<0.01	<0.005	<0.05			
Jackpile #4	11/06/79	<0.005	<0.05	<0.001	<0.005	0.02	<0.0005	<0.01	0.004	<.10	0.008	<0.01	<0.005	<0.05			
Jackpile New Shop	11/21/79	<0.005	<0.05	<0.001	<0.005	0.02	<0.0005	<0.01	0.008	<.10	0.21	<0.01	<0.005	<0.05			
Jackpile Old Shop	11/06/79	0.006	<0.05	<0.001	<0.005	0.02	<0.0005	0.19	0.020	<.10	0.070	<0.01	<0.005	<0.05			

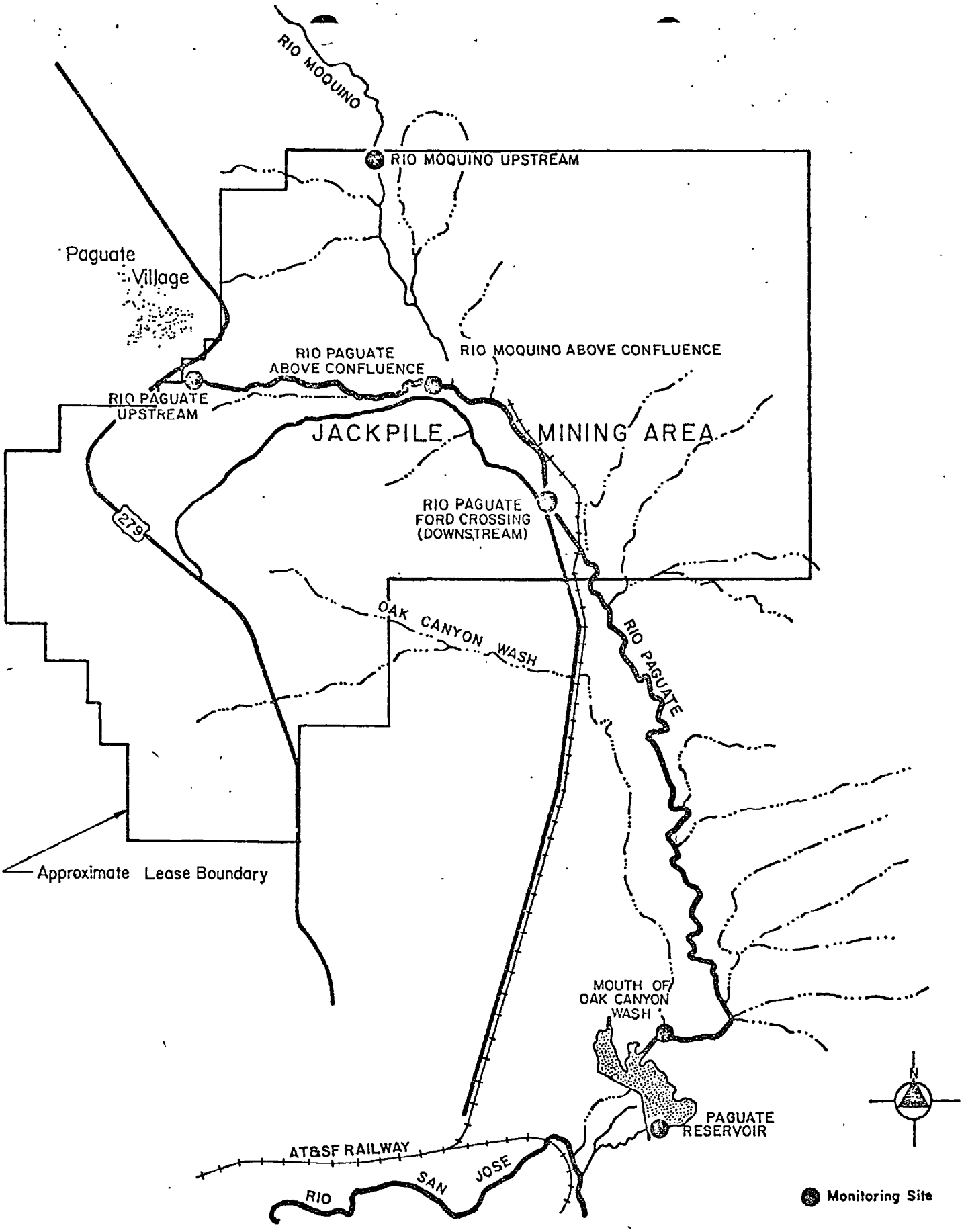
JACKPILE
WATER CHEMICAL ANALYSIS

DATE: December, 1979

DESCRIPTIVE LOCATION	DATE	pH	TDS ppm	Cond umhos	HCO_3^- ppm	Cl^- ppm	$SO_4^=$ ppm	Na^+ ppm	K^+ ppm	Ca^{++} ppm	Mg^{++} ppm	NO_3^- ppm	F^- ppm	SiO_2 ppm	Mn^{++} ppm		
Rio Paguate (Upstream)	12/07/79	8.2	551	830	352	11	161	28	14	94	33	< 1	0.44	35	<.1		
Rio Moquino (Upstream)	12/07/79	8.1	1774	2400	292	20	1063	212	21	165	121	< 1	0.67	26	<.1		
Rio Paguate (Above the Confluence)	12/07/79	8.4	662	1200	238	15	302	49	16	83	51	< 1	0.53	27	<.1		
Rio Moquino (Above the Confluence)	12/07/79	8.1	2025	2700	274	19	1282	230	22	170	143	< 1	0.82	22	<.1		
Rio Paguate (Ford Crossing)	12/07/79	8.0	1867	2400	333	23	1102	230	22	170	136	< 1	0.74	18	<.1		
Paguate Reservoir	12/07/79	8.1	2289	2800	197	43	1455	250	35	272	128	< 1	0.81	7	<.1		
Jackpile #4	12/07/79	8.7	868	1500	350	17	334	320	6	3	1	< 1	1.30	13	<.1		
Jackpile New Shop	12/07/79	8.5	1435	2200	391	28	675	500	11	13	2	< 1	1.40	12	<.1		
Jackpile Old Shop	12/07/79	8.4	1798	2600	285	42	972	470	14	81	58	10	0.89	10	<.1		
		As ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm	Cu ppm	Fe ppm	Zn ppm	Mo ppm	Ni ppm	V ppm			
Rio Paguate (Upstream)	12/07/79	<0.005	< 0.05	< 0.001	< 0.005	0.02	<0.0005	< 0.01	0.004	< .1	0.008	< 0.01	< 0.005	< 0.05			
Rio Moquino (Upstream)	12/07/79	< 0.005	< 0.05	< 0.001	< 0.005	0.04	<0.0005	< 0.01	0.004	< .1	0.008	< 0.01	< 0.005	< 0.05			
Rio Paguate (Above the Confluence)	12/07/79	< 0.005	< 0.05	< 0.001	< 0.005	0.02	<0.0005	< 0.01	0.003	< .1	0.004	< 0.01	< 0.005	< 0.05			
Rio Moquino (Above the Confluence)	12/07/79	< 0.005	< 0.05	< 0.001	< 0.005	0.03	<0.0005	< 0.01	0.003	< .1	0.004	< 0.01	< 0.005	< 0.05			
Rio Paguate (Ford Crossing)	12/07/79	< 0.005	< 0.05	< 0.001	< 0.005	0.04	<0.0005	< 0.01	0.004	< .1	0.009	< 0.01	< 0.005	< 0.05			
Paguate Reservoir	12/07/79	< 0.005	< 0.05	< 0.001	< 0.005	0.05	<0.0005	< 0.01	0.004	< .1	0.013	< 0.01	< 0.005	< 0.05			
Jackpile #4	12/07/79	< 0.005	< 0.05	< 0.001	< 0.005	<0.01	<0.0005	< 0.01	0.003	< .1	0.007	< 0.01	< 0.005	< 0.05			
Jackpile New Shop	12/07/79	<0.005	<0.05	<0.001	< 0.005	0.03	<0.0005	< 0.01	0.004	< .1	0.090	< 0.01	< 0.005	< 0.05			
Jackpile Old Shop	12/07/79	<0.005	<0.05	<0.001	< 0.005	0.02	<0.0005	0.18	0.004	< .1	0.060	< 0.01	< 0.005	< 0.05			

LOCATION OF
GROUND WATER MONITORING STATIONS





LOCATION OF
SURFACE WATER MONITORING STATIONS

JACKPILE - AIR SAMPLING SURVEY

SECOND QUARTER, 1980

LOCATION	DATE	Total Particulate $mg/M^3 \times 10^{-8}$	U-Nat. $uci/ml \times 10^{-15}$	Ra-226 $uci/ml \times 10^{-15}$	Th-230 $uci/ml \times 10^{-15}$	Pb-210 $uci/ml \times 10^{-15}$
1. Dump F	4/80	9.09	6.54	6.41	4.26	23.63
	5/80	4.82	14.23	6.29	2.63	21.13
	6/80	9.83	21.89	1.85	0.94	14.86
2. Mine Vent	4/80	0.38	0.26	0.20	0.48	20.20
	5/80	2.17	7.63	1.08	0.62	17.01
	6/80	NS	NS	NS	NS	NS
3. West Gate	4/80	3.57	2.63	1.45	1.81	11.84
	5/80	3.21	7.22	2.58	0.91	15.78
	6/80	10.12	11.35	4.06	1.43	11.27
4. Well #4	4/80	4.07	3.79	2.13	2.13	20.85
	5/80	2.46	0.70	0.59	2.22	20.54
	6/80	6.39	17.75	10.82	6.84	5.10

JACKPILE - AMBIENT RADON STUDY

SECOND JARTER, 1980

LOCATION	DATE	Rn-222 pCi/l
1. Dump F	4/80	0.33
	5/80	0.77
	6/80	0.92
2. Mine Vent	4/80	0.33
	5/80	0.63
	6/80	0.95
3. Well #4	4/80	0.96
	5/80	0.54
	6/80	0.85
4. Westgate	4/80	0.20
	5/80	0.76
	6/80	0.61

LOCATION OF
AIR QUALITY MONITORING STATIONS